## IAP15 Rec'd PCT/PTO 25 AUG 2006

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:

Yoav KIMCH

Serial No.:

10/533,568

Filed:

May 3, 2005

For:

APPARATUS AND METHODS FOR IMAGING

AND ATTENUATION CORRECTION

Examiner:

unknown

Mail Stop Amendment Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450 *ଊଊଊଊଊଊଊଊଊଊଊଊଊ* 

Group Art Unit: 2878

Attorney

Docket: 29684

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

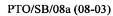
This Supplemental Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,

Martin D. Moynihan

Registration No. 40,338

Dated: August 10, 2006



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				Application Number 10/533,568		
SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Filing Date	May 3, 2005	
				First Named Inventor	Yoav KIMCHY et al	
				Art Unit	2878	
				Examiner Name	unknown	
			of 3	Attorney Docket Number	29684	
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Examiner	Cite Document Number		Publication Date	DOCUMENTS  Name of Patentee or	Pages, Columns, Lines, Where	
Initials*	No. 1	Number-Kind Code <sup>2 (if known)</sup>	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	
	1	US-6,261,562	07-17-2001	Xu et al.		
	2	US-5,880,475	09-9-1999	Oka et al.		
	3	US-5,716,595	02-10-1998	Goldenberg		
	4	US-6,567,687	05-20-2003	Front et al.		
	5	US-2002/0087101	04-4-2002	Barrick et al.		
	6	US-5,694,933	09-9-1997	Madden et al.		
	7	US-5,694,933	09-9-1997	Madden et al.		
	8	US-6,135,955	10-24-2000	Madden et al.		
	9	US-4,521,688	04-4-1985	Yin		
	10	US-6,628,984	09-30-2003	Weinberg		
	11	US-6,748,259	08-8-2004	Benaron et al.		
	12	US-5,489,782	06-6-1996	Wernikoff		
	13	US-6,407,391	06-18-2002	Mastrippolito et al.		
	14	US-6,212,423	03-3-2001	Krakovitz		
	15	US-6,242,743	05-5-2001	DeVito		
	16	US-5,939,724	08-17-1999	Eisen et al.		
	17	US-2003/0063787	03-3-2003	Natanzon et al.	-	
	18	US-2003/0208117	06-6-2003	Shwartz et al.		
	19	US-6,271,524	07-7-2001	Wainer et al.		
	20	US-6,525,321	02-25-2003	Juni		
<del>-</del>	21	US-6,525,320	02-25-2003	Juni		
	22	US-6,271,525	07-7-2001	Majewski et al.		
	23	US-5,249,124	09-28-1993	DeVito		
	24	US-2002/0085748	04-4-2002	Baumberg		
	25	US-4,928,250	05-22-1990	Greenberg et al.		
	26	US-2003/0001837	02-2-2003	Baumberg		
	27	US-5,729,129	03-17-1998	Acker		
	28	US-6,611,141	08-26-2003	Schulz et al.		
	29	US-4,828,841	09-9-1989	Porter et al.		
	30	US-5,833,603	11-10-1998	Kovacs et al.		
	31	US-6,584,348	06-24-2003	Glukhovsky		
	32	US-6,240,312	05-29-2001	Alfano et al.		
	33	US-6,431,175	08-13-2002	Penner et al.		
	34	US-6,263,229	07-17-2001	Atalar et al.		
	35	US-2004/0015075	01-22-2004	Kimchy et al.		
		US-2004/0116807	06-17-2004	Amrami et al.		

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## Complete if Known 449A/PTO Application Number 10/533,568 SUPPLEMENTAL INFORMATION Filing Date May 3, 2005 **DISCLOSURE** First Named Inventor Yoav KIMCHY et al STATEMENT BY APPLICANT Art Unit 2878 (use as many sheets as necessary) Examiner Name unknown Attorney Docket Number Sheet 2 29684 **U.S. PATENT DOCUMENTS** Publication Date Name of Patentee or Cite No. 1 **Examiner** Document Number Pages, Columns, Lines, Where MM-DD-YYYY Initials\* Relevant Passages or Relevant Applicant of Cited Document Figures Appear Number-Kind Code<sup>2 (if known)</sup>

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. 1	Foreign Patent Documents  Country Code <sup>3</sup> · Number <sup>4</sup> · Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY		of Patentee or of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T 6	
	37	PCT WO 02/058531	01-1-2002	Kimchy e	t al.		П	
	38	PCT WO 02/16965	02-28-2002	Kimchy e	t al.			
	39	PCT WO 2004/042546	05-21-2004	Kimchy e	t al.			
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Complete if Known Substitute for form 1449A/PTO Application Number 10/533,568 SUPPLEMENTAL INFORMATION DISCLOSURE Filing Date May 3, 2005 STATEMENT BY APPLICANT Yoav KIMCHY et al First Named Inventor (use as many sheets as necessary) Group Art Unit 2878 **Examiner Name** unknown Attorney Docket Number 3 29684 Sheet 3 of OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the Cite Examiner item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s),  $T^2$ No.1 Initials publisher, city and/or country where published. 40 Rajshekhar "Continuous Impedence Monitoring During CT-Guided Stereotactic Surgery: Relative Value in Cystic and Solid Lesions", British Journal of Neurosurgery, 6: 439-444, 1992. 41 Bromiley et al. "Attenuation Correction in PET Using Consistency Conditions and A Three-Dimensional Template", IEEE Transactions on Nuclear Science, 48(4): 1371-1377, 2001. P.1376, Col.2, § 2. 42 Hayakawa et al. "A PET-MRI Registration Technique for PET Studies of the Rat Brain", Nuclear Medicine & Biology, 27: 121-125, 2000. P.121, Col.1. 43 Lavallée et al. "Building A Hybrid Patient's Model for Augmented Reality in Surgery: A Registration Problem", Computing in Biological Medicine, 25(2): 149-164, 1995. P.149-150. 44 Kojima et al. "Quantitative Planar Imaging Method for Measurement of Renal Activity by Using A Conjugate-Emission Image and Transmission Data", Medical Physics, 27(3): 608-615, 2000. P.608. 45 Pardridge et al. "Tracer Kinetic Model of Blood-Brain Barrier Transport of Plasma Protein-Bound Ligands", Journal of Clinical Investigation, 74: 745-752, 1984. 46 Reutter et al. "Direct Least Squares Estimation of Spatiotemporal Distributions From Dynamic SPECT Projections Using A Spatial Segmentation and Temporal B-Splines", IEEE Transactions on Medical Imaging, 19(5): 434-450, 2000. 47 Huesman et al. "Kinetic Parameter Estimation From SPECT Cone-Beam Projection Measurements", Physics in Medicine and Biology, 43(4): 973-982, 1998. 48 Reutter et al. "Kinetic Parameter Estimation From Attenuated SPECT Projection Measurements", IEEE Transactions on Nuclear Science, 45(6): 3007-3013, 1998. 49 Garcia et al. "Accuracy of Dynamic SPECT Acquisition for Tc-99m Teboroxime Myocardial Perfusion Imaging: Preliminary Results", American College of Cardiology, 51st Annual Scientific Session, Atlanta, Georgia, USA, 8 P., 2002.

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